## Amendments to the Claims

Please amend Claims 1 and 24. The Claim Listing below will replace all prior versions of the claims in the application:

## Claim Listing

1. (Currently amended) In a system which supports code division multiple access communication among members of a first group of terminals and among a second group of terminals, a method comprising the steps of:

assigning to the first group of terminals a first code, each user of the first group being unique uniquely identifiable by a unique code phase offset;

assigning to the second group of terminals the same code as used by the first group and a unique but each user of the second group using a common phase offset of that code that is shared by each user of the second group; and

assigning to each user of the second group an additional code, the additional code being unique for each of the terminals of the second group.

- 2. (Original) A method as in claim 1 wherein the code assigned to the first group of terminals is a common chipping rate code.
- 3. (Original) A method as in claim 1 wherein the additional codes assigned to the second group of terminals are a set of unique, orthogonal codes.
- 4. (Original) A method as in claim 1 wherein the code assigned to the first group of terminals is a unique, non-orthogonal scrambling sequence.
- 5. (Original) A method as in claim 1 wherein the first group of terminals uses scrambling codes that are unique phase shifts of a larger pseudorandom noise sequence.



- 6. (Original) A method as in claim 1 wherein the second group of terminals use additional codes that are a set of unique orthogonal codes.
- 7. (Original) A method as in claim 6 wherein the unique orthogonal code is used to scramble the transmissions of the second group of terminals at an indicated chip rate.
- 8. (Original) A method as in claim 7 wherein the transmission timing for the second group of terminals is synchronized to allow transmissions from the second group of terminals to be orthogonal to one another.

(Original) A method as in claim 1 wherein the two groups of terminals employ radio frequency modulation that is different from each other.

- 10. (Original) A method as in claim 1 wherein the two groups of terminals employ the codes in different spreading techniques.
- 11. (Original) A method as in claim 10 wherein the first group of terminals uses pairs of the codes as respective inputs to an in-phase and quadrature modulator.
- 12. (Original) A method as in claim 10 wherein the second group of terminals use the assigned additional codes as short scrambling codes.
- 13. (Original) A method as in claim 1 wherein a first group of terminals receives periodic timing adjustment information over a first link direction to provide for timing adjustment for a second link direction.
- 14. (Original) A method as in claim 13 wherein the second group of terminals do not receive such periodic timing adjustment information.

- 15. (Original) A method as in claim 1 wherein the second group of terminals use an additional code which is a short length orthogonal code.
- 16. (Original) A method as in claim 1 wherein the second group of terminals use an additional code which is a short length, bit augmented pseudorandom noise sequence.
- 17. (Original) A method as in claim 1 wherein the codes assigned to the first group of terminals and the additional codes assigned to the second group of terminals are used to encode transmissions on a reverse communication link between remotely located wireless terminals and a centrally located wireless base station.

18. (Original) A method as in claim 1 wherein the first group of terminals are legacy cellular telephone terminals.

- 19. (Original) A method as in claim 18 wherein the first group of terminals are assigned codes according to a CDMA cellular telephone standard specification.
- 20. (Original) A method as in claim 19 wherein the CDMA cellular telephone standard specification is selected from the group consisting of IS-95 and CDMA-2000.
- 21. (Original) A method as in claim 18 wherein the second group of terminals are used in a wireless data communication system.
- 22. (Original) A method as in claim 21 wherein the additional codes assigned to the second group of terminals are a set of common chip rate scrambling codes.
- 23. (Original) A method as in claim 22 wherein the additional codes are scrambling codes that repeat every N chips, where N is an even number in a range from 128 to 32768 chips.

- 24. (Currently amended) A wireless communication system comprising a first set of access units and a second set of access units, the first set of access units and the second set of access units capable of communicating with a central base station wherein the first set of access units use a chip rate scrambling code to separate their user channels, each individual unit of the first set of access units having at least one unique, non-orthogonal scrambling sequence that is selected from a unique phase shift of a longer pseudorandom noise sequence, and wherein the second group of access units share a common chip rate scrambling code derived from a unique phase shift of the longer pseudorandom noise sequence that is not used by the first group of access units.
- 25. (Original) The wireless communication system of claim 24 wherein each unit of the second set is assigned at least one unique orthogonal code.
  - (Original) The wireless communication system of claim 24 wherein the chip rate transmissions of the second set of access units are scrambled by the bits of the orthogonal code at a chipping rate.
- 27. (Original) The wireless communication system of claim 24 wherein the transmission timing of the second set of access units is controlled such that their transmissions are orthogonal to each other.
- 28. (Original) The wireless communication system of claim 24 wherein the scrambling code is 2<sup>42</sup> chips in length.
- 29. (Original) The wireless communication system of claim 24 wherein the first set of access units and the second set of access units employ different modulation techniques.
- 30. (Original) The wireless communication system of claim 24 wherein the first set of access units and the second set of access units employ different spreading techniques.

- 31. (Original) The wireless communication system of claim 30 wherein the first set of access units employ complex in-phase and quadrature spreading.
- 32. (Original) The wireless communication system of claim 31 wherein the complex inphase and quadrature spreading uses two different scrambling codes.
- 33. (Original) The wireless communication system of claim 32 wherein the two different scrambling codes are 2<sup>15</sup> in length.
- (Original) The wireless communication system of claim 32 wherein the two different scrambling codes comprise an in-phase (I) code and a quadrature (Q) code.
- 35. (Original) The wireless communication system of claim 31 wherein the second set of access units use a scrambling code that is 2<sup>15</sup> in length.
- 36. (Original) The wireless communication system of claim 24 wherein the access units are using the assigned codes to format signals for a reverse link communication signal.